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FOREWORD

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(U) THE LONG RANGE ACOUSTIC PROPAGATION PROJECT (LRAPP) WAS ESTABLISHED IN THE OFFICE OF NAVAL RESEARCH IN 1966 TO PROVIDE OCEAN ACOUSTIC SUPPORT FOR THE DESIGN, DEVELOPMENT, DEPLOYMENT AND OPERATION OF ANTISUBMARINE WARFARE SYSTEMS. IN 1975 LRAPP WAS RELOCATED IN THE NAVAL OCEAN RESEARCH AND DEVELOPMENT ACTIVITY (NORDA). LRAPP HAS SPONSORED, INDEPENDENTLY OR IN CONJUNCTION WITH OTHER PROGRAM OFFICES, LITERALLY HUNDREDS OF OCEAN ACOUSTIC INVESTIGATIONS RANGING FROM MAJOR AT-SEA MEASUREMENT EXERCISES TO SMALL STUDIES OF PARTICULAR PHENOMENA. THE BROAD SCOPE OF EFFORT ENCOMPASSES TOPICS OF INTEREST TO BOTH THE R&D AND OPERATIONAL NAVY COMMUNITIES.

(U) THIS DOCUMENT IS A BIBLIOGRAPHY OF REPORTS AND PUBLICATIONS ON INVESTIGATIONS FULLY OR PARTIALLY SPONSORED BY LRAPP. WHILE EVERY EFFORT HAS BEEN MADE TO INCLUDE ALL LRAPP PUBLICATIONS, THE LIST IS NOT LIKELY TO BE COMPLETE. ADDRESSEES ARE JGGED TO FURNISH CORRECTIONS OR ADDITIONAL ENTRIES THAT CAN BE INCORPORATED IN A FUTURE UDATE OF THIS BIBLIOGRAPHY.

(U) ALL TITLES IN THE BIBLIOGRAPHY ARE UNCLASSIFIED. AS THE GENERAL RULE, A COMPILATION OF UNCLASSIFIED ITEMS OF INFORMATION SHALL NOT BE CLASSIFIED, HOWEVER, IN UNUSUAL CIRCUMSTANCES A COLLECTION OF UNCLASSIFIED ITEMS TOGETHER PROVIDES AN ADDITIONAL FACTOR WHICH WARRANTS CLASSIFICATION. AS DIRECTED BY THE CHIEF OF NAVAL OPERATIONS, THIS BIBLIOGRAPHY IS FELT TO REVEAL SUFFICIENT SCOPE AND PARTICULAR AREAS OF INTEREST OF UNDERSEA SURVEILLANCE DEVELOPMENTS, TO BE CLASSIFIED CONFIDENTIAL.

R. R. GARDNER  
DIRECTOR, SEAS PROJECT

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## INTRODUCTION

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SINCE 1967, THE LONG RANGE ACOUSTIC PROPAGATION PROJECT (LRAPP) OF THE NAVAL OCEAN RESEARCH AND DEVELOPMENT ACTIVITY (NORDA) HAS MANAGED AN ADVANCED DEVELOPMENT PROGRAM IN OCEAN ENVIRONMENTAL ACOUSTICS IN SUPPORT OF ASW SURVEILLANCE. IN SUPPORT OF THIS PROGRAM, LRAPP HAS SPONSORED A SERIES OF INTENSIVE MEASUREMENT EXERCISES IN VARIOUS OCEAN AREAS, SPECIAL STUDIES OF PARTICULAR PHENOMENA, AND DEVELOPMENT AND VALIDATION OF COMPUTERIZED NUMERICAL MODELS USED TO PREDICT THE EFFECT OF THE OCEAN ON SYSTEM PERFORMANCE. THE RESULTS OF THE LRAPP PROGRAM ARE DOCUMENTED IN THE HUNDREDS OF TECHNICAL PAPERS AND REPORTS THAT HAVE BEEN PUBLISHED SINCE 1968.

THIS DOCUMENT IS A BIBLIOGRAPHY OF PUBLICATIONS EITHER PARTIALLY OR TOTALLY SPONSORED BY LRAPP DURING THE PERIOD JANUARY 1968 - JUNE 1978. THE PURPOSE OF THIS REPORT IS TO PROVIDE THE NAVY R&D COMMUNITY WITH A HANDY REFERENCE LISTING MOST OF THE DOCUMENTS PRODUCED UNDER LRAPP SPONSORSHIP. TO MAKE THE MATERIAL AS ACCESSIBLE AS POSSIBLE, THE BIBLIOGRAPHY IS ORGANIZED INTO FOUR SEPARATE SECTIONS: AUTHOR, EXERCISE, GENERAL CONTENT, AND OCEAN AREA. THE AUTHOR SECTION CONTAINS A COMPLETE LISTING OF ALL THE BIBLIOGRAPHIC ENTRIES; THE OTHER SECTIONS LIST ONLY THOSE THAT ARE APPROPRIATE. ALL TITLES IN THE BIBLIOGRAPHY ARE UNCLASSIFIED.

THE BIBLIOGRAPHIC ENTRIES ARE ARRANGED ALPHABETICALLY BY PRIMARY AUTHOR. MULTIPLE REPORTS BY THE SAME PRIMARY AUTHOR ARE LISTED CHRONOLOGICALLY. THE INDIVIDUAL AUTHOR'S NAME(S) WAS USED WHENEVER THIS INFORMATION WAS AVAILABLE; OTHERWISE, THE PUBLISHING ORGANIZATION IS LISTED AS THE AUTHOR. THE ONE EXCEPTION TO THIS PROCEDURE IS WITH REPORTS PUBLISHED BY OCEAN DATA SYSTEMS, INC., WHERE THE COMPANY REQUESTED THAT THE CORPORATE AUTHOR BE USED. IN CASES WHERE ENTRIES ARE INCOMPLETE, A DASHED LINE HAS BEEN USED IN THE APPROPRIATE ENTRY LOCATION. THE FORMAT USED FOR ENTRIES IN THIS REPORT IS AS FOLLOWS:

AUTHOR(S) (LAST NAME, INITIALS), "REPORT TITLE", PUBLISHER, REPORT NUMBER, DATE PUBLISHED, CLASSIFICATION

MANY OF THE DOCUMENTS LISTED IN THE BIBLIOGRAPHY ARE HELD BY LRAPP AND/OR THE NORDA CLASSIFIED LIBRARY. HOWEVER, MANY OTHERS ARE NOT AVAILABLE TO LRAPP OR ELSEWHERE IN NORDA. FOR THIS REASON, ADDRESSEES HAVING A NEED FOR A COPY OF A PARTICULAR DOCUMENT LISTED IN THIS BIBLIOGRAPHY SHOULD FIRST CONTACT THE AUTHOR AND/OR THE PUBLISHER. REQUESTS FOR ALL COPIES OF DOCUMENTS PUBLISHED BY THE MAJRY CENTER FOR OCEAN SCIENCE SHOULD BE SUBMITTED TO LRAPP.

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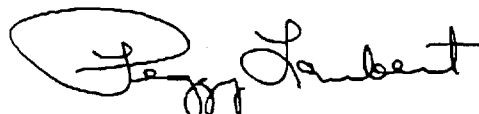
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